PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	NOD BURNING A CONTON		7DC 4 /416		
030044PC	FOR FURTHER ACTION See Form PCT/IPEA/416				
International application No.	International filing date (day/month/year) Priority date (day/month		ority date (day/month/year)		
PCT/SE 2004/000129	02-02-2004	2	5-03-2003		
International Patent Classification (IPC) of	or national classification and IPC	С			
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Applicant					
AIRNET HOLDINGS AB et	al				
This report is the international pre Authority under Article 35 and tr	eliminary examination report, examination repo	stablished by this Inording to Article 36.	ernational Preliminary Examining		
2. This REPORT consists of a total	= -	luding this cover she	ct.		
3. This report is also accompanied b					
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	and to the International Burea				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
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b (sent to the Internation	onal Bureau only) a total of (inc				
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications re	elating to the following items:				
Box No. I Basis o	f the report				
Box No. II Priority	у				
Box No. III Non-es	tablishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of	of unity of invention				
	ned statement under Article 35(2) with regard to novelty, inventive step or industrial bility; citations and explanations supporting such statement				
Box No. VI Certain	Box No. VI Certain documents cited				
Box No. VII Certain	defects in the international application				
Box No. VIII Certain observations on the international application					
Date of submission of the demand		to of completion of the	nis report		
12-10-2004		22-06-2005			
Name and mailing address of the IPEA/SB		thorized officer			
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Form PCT/IPEA/409 (cover sheet) (January 2004)					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

No.

		PCT/SE A	2004/000129			
Box No. I	Basis of the report					
concr	regard to the language, this report is based on the international applications indicated under this item.	n in the language	in which it was filed, unless			
	This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:					
·	international search (under Rules 12.3 and 23.1(h))		·			
	publication of the international application (under Rule 12.4)					
	international preliminary examination (under Rules 55.2 and/or 55.	.3)				
Jumu	regard to the elements of the international application, this report is be hed to the receiving Office in response to an invisation under Article 14 are not unnexed to this report):	asod on (replaces c referred to in th	nent skeets which have been is report as "originally filed"			
	the international application as originally filed/furnished					
\boxtimes	the description:					
	pages <u>1-7</u>	8	s originally filed/furnished			
	pages* received by this Author					
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1	bitdes	8	s originally filed/furnished			
	pages* as amended ((together with any	statement) under Article 19			
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	pages 1 pages*		s originally filed/furnished			
	pages* received by this Autho					
	a requence listing and/or any related table(s) - see Supplemental Box Relat					
3.	The amendments have resulted in the cancellation of:	•	•			
	the description, pages					
	the cialms, Nos.					
	the drawings, sheers/figs					
	the sequence listing (specify):					
	any mble(s) related to the sequence listing (specify):					
4.	This report has been established as if (some of) the amendments annexed made, since they have been considered to go beyond the disclosure as file 70.2(c)).	d to this report ar d, as indicated in	nd listed below had not been the Supplemental Box (Rulo			
	the description, pages					
	the claims, Nos.	**************************************	•			
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	the drawings, sheets/figs the sequence listing (specify):					
	any table(a) related to the sequence listing (specify):					
If tem 4 applies, some or all of those sheets may be marked "superseded."						
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE 2004/000129

	Reasoned statement u citations and explana		5(2) with regard to novelty, inventive and such statement	step or industrial applicability;
1. Statement				
Novelty	(N)	Claims Claims	1-5	YES NO
ľnventis	ve step (IS)	Claims Claims	1-5	YES NO
Industri	al applicability (IA)	Claims Claims	1-5	YES NO
		Claims		

2. Citations and explanations (Rule 70.7)

The claimed invention relates to a method for sending large volumes of information to one or more personal computers from a database, via a digital high-speed network such as a DAB radio network, in a way that minimizes the time the personal computer has to spend online.

Documents cited in the International Search Report:

- "IP based enhanced data casting services over radio broadcast networks" Kellerer, w. et al.
- D2: "A distributed proxy server system for wireless mobile Web service" Kisup k. et al.
- D3: WO 9914775 A1
- D4: GB 2313981 A
- D5: US 2003/0054804 A1
- D6: WO 0178350 A1

D1 describes a method of sending large volumes of information from a database to one or more personal computers or corresponding devices via a DAB radio network, (fig.1). A proxy server is provided between the personal computer and the server, (fig.5). The proxy server may store the information and check that the information is complete, (section 3.3). The information may be given an identification code in order to make it readable only to the terminal that requested the information, (p.201, col.2).

Documents D2-D6 reveal the state of the art concerning information transfer via DAB.

D1-D6 do not mention that a proxy server selectively either forwards the information directly, or checks whether it is complete first. Nor do the documents mention that there is a proxy server on the side of the sender. Thus, the claimed invention fulfils the requirements of novelty, inventive step and industrial applicability.

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CLAIMS

A method of sending large volumes of information to one or more personal 1. computers (1) or corresponding devices from a database (2) or corresponding device, such as a company's product line stored in connection with the company's home page or a portal, wherein the personal computer (1) can be connected, via a communications network (5), such as the Internet, to said database (2) which includes a computer in the form of a server (6), wherein the database contains said information and wherein a user is able to ask for information during such a connection via the personal computer (1) wherein a digital network (7-10) having a high transmission speed, such as a DAB radio network, comprising a transmitter means (7) and a receiver (8) can be caused to send said requested information and wherein the information is caused to be received by a receiver (8) in the possession of the user, wherein requested information in the database (2) is given an identification code which is sent to said receiver (8), wherein said receiver is caused to analyse the received DAB signal with regard to said identification code, wherein the method is characterised by providing a so called proxy server between the personal computer (1) and the server (6), respectively between said server (6) and said transmitter means (7) wherein said proxy server (4) is caused selectively to either forward the collected information to the transmitter means (7) for transmission of said information via said radio network (7-10), so that said information can be received in the receiver (8), or to alternatively be transparent for the exchange of information between the server (6) and the personal computer (1), wherein when it is chosen to transfer requested information from the server (6) via said network (7-10) to said receiver (8), via the proxy server, the proxy server (4) is caused, in response to a request for certain information to the personal computer (1) from the server (6), to fetch said information from the server (6) and therewith check that the information is complete, i.e. that all packets of information have been received, and wherein the proxy server is caused to store the complete collected information and to forward said information to the transmitter means (7).

2. A method according to Claim 1, characterised by causing the transmission of information via the radio network (7-10) to be effected without the influence of a possible communications link from the personal computer (1) to the server (4); and by causing the received information to be sent to the personal computer (1).

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- 3. A method according to Claim 1 or 2, characterised by making said choice prior to fetching said information from the server (6) to the proxy server (4).
- 4. A method according to Claim 1, 2 or 3, characterised by causing said information to be sent in the form of an information block that includes specific information requested by the personal computer (1).
- A method according to Claim 1, 2, 3 or 4, characterised by causing the requested information to be sent at given time points or as soon as possible; and by causing the proxy server (4) to send to the personal computer (1) a message as to when information requested by the personal computer (1) will be sent.
- 6. A method according to any one of the preceding Claims, characterised in that the digital network is a DAB radio network.

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